

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY. DOCKET NO. 1758-4036US2	SERIAL NO. 09/120,044
	APPLICANT Conceicao MINETTI et al.	
	FILING DATE July 21, 1998	GROUP ART UNIT 1643

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5, 623, 057	04/22/97	Marburg, Stephen, et al.	530	404	05/20/94
	A	5, 565, 204	10/15/96	Kuo, Joseph S. C., et al.	424	244.1	08/24/94

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		WO 90/06951	06/28/99	PCT				
		0 687 688 A1	12/20/95	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

	A	Peter J. Morgan, et al., Structural and functional characterisation of two proteolytic fragments of the bacterial protein toxin, pneumolysin, <u>FEBS Letters</u> , Volume 412, No. 3, August 4, 1997, pp. 563-567.
	A	Jamie Rossjohn, et al., Structure of a Cholesterol-Binding, Thiol-Activated Cytolysin and a Model of Its Membrane Form, <u>Cell</u> , Volume 89, May 30, 1997, pp.685-692.
	A	Robert A. Lock, et al., Sequence variation in the <i>Streptococcus pneumoniae</i> pneumolysin gene affecting haemolytic activity and electrophoretic mobility of the toxin, <u>Microbial Pathogenesis</u> , Volume 21, 1996, pp. 71-83.
EXAMINER		DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if		

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APPLICANT

Conceicao Minetti, et al.

FILING DATE
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	A		Joseph Kuo, et al., Characterization of a Recombinant Pneumolysin and Its Use as a Protein Carrier for Pneumococcal Type 18C Conjugate Vaccines, <u>Infection and Immunity</u> , Volume 63, No. 7, July 1995, pp. 2706-2713.
	A		Jay C. Butler, et al., Serotype Distribution of <i>Streptococcus pneumoniae</i> Infections among preschool Children in the United States, 1978-1994: Implications for development of a Conjugate Vaccine, <u>The Journal of Infectious Diseases</u> , Volume 171, No. 4, April 1995, pp.885-889.
	A		Janet E. Alexander, et al., Immunization of Mice with Pneumolysin Toxoid Confers a Significant Degree of Protection against At Least Nine Serotypes of <i>Streptococcus pneumoniae</i> , <u>Infection and Immunity</u> , Volume 62, No. 12, December 1994, pp. 5683-5688.
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	A		Jim Hill, et al., Amino Acids in Pneumolysin Important for Hemolytic Activity Identified by Random Mutagenesis, <u>Infection and Immunity</u> , Volume 62, No. 2, February 1994, pp. 757-758.
	A		Gianfranco Menestrina, et al., Structural features of the pore formed by <i>Staphylococcus aureus</i> a-toxin inferred from chemical modification and primary structure analysis, <u>FEMS Microbiology Immunology, Infection: Host Response and Immunity</u> , Volume 105, Nos. 1-3, September 1992, pp. 19-28.
	A		James C. Paton, et al., Purification and Immunogenicity of Genetically Obtained Pneumolysin Toxoids and Their Conjugation to <i>Streptococcus pneumoniae</i> Type 19F Polysaccharide, <u>Infection and Immunity</u> , Volume 59, No. 7, July 1991, pp.2297-2304.

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	A		Margaret J. Green, et al., Site-Directed Mutagenesis of the Hole-Forming Toxin Aerolysin: Studies on the Roles of Histidines in Receptor Binding and Oligomerization of the Monomer, <u>Biochemistry</u> , Volume 29, No. 8, February 27, 1990, pp. 2177-2180.				
	A		Abstract W-PM-B4, A.S.A. Minetti, et al., Structural And Functional Characterization of Recombinant Streptococcal Pneumolysin, <u>Biophysical J.</u> , Volume 74, No. 2, February 1998, p. A233.				
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	A	WO 96/05859	02/29/96	PCT			
	A	WO 95/16711	06/22/95	PCT			
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	A	F. Michon, et al., Multivalent pneumococcal capsular polysaccharide conjugate vaccines employing genetically detoxified pneumolysin as a carrier protein, <u>Vaccine</u> , Volume 16, No. 18, November 1998, pp. 1732-1741.					
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